

## Postdoctoral Fellow in IBRI Diabetes Center

Don't just research...**Discover!**

We are Indiana Biosciences Research Institute (IBRI). We deliver research that has a meaningful impact on the lives of people through new solutions that address diabetes, cardiometabolic diseases and poor nutrition. Working at the IBRI means being part of a team of renowned scientists who are helping to improve Hoosier health. It also means you are not alone. In addition to your experienced team members, you have collaborators from the Indiana life sciences ecosystem.

Our colleagues bring diverse ideas and experiences to our work, are dedicated to living out our mission every day and are passionate about their research. So passionate that it often carries out into the community through work with JDRF, volunteering at local nonprofit organizations and helping to educate the next generation of scientists.

The IBRI's vision is to build a world-class organization of researchers, engineers and business professionals that catalyze activities across the Indiana (and beyond) life sciences community. To achieve that vision, we look for curious and collaborative team members who are energized by innovation, guided by integrity and inspired by diversity.

### **The Opportunity:**

A **Postdoctoral Fellow** position is available at the Indiana Biosciences Research Institute (IBRI) Diabetes Center in the laboratory of Dr. Decio Eizirik. This lab aims to clarify the mechanisms of pancreatic beta cell dysfunction and death in type 1 diabetes mellitus, with a focus on endoplasmic reticulum stress, alternative splicing and other mechanisms that may contribute to beta cell death and generation of neoantigens.

The selected candidate will participate in a team working with primary human and iPSC-derived islets, animal models of diabetes and human beta cell lines, and advanced molecular biology techniques. A strong understanding of beta cell biology and/or molecular biology is important. The selected candidate will be highly motivated and take initiative in proposing and performing experiments, with support by Dr. Eizirik and other colleagues in the lab.

### **Responsibilities:**

- Develop and conduct state of the art scientific experiments with human primary and iPSC-derived islets and cell lines, initially with supervision and then progressively independent work, including:
  - Cell isolation/culture.
  - Develop cell-based functional and viability assays for evaluating beta cell responses to stress.
  - Characterize gene and protein expression in stressed and physiological beta cells.
  - Maintain specific transgenic mouse models and conduct required experiments.
- Accurately document and publish research findings.
- Actively support applications for grants and sponsored research funding proposals.

**Qualifications:**

- PhD in Cell Biology, Biochemistry or related field is required.
- Relevant experience in molecular biology is required.
- Experience with iPSC is a plus, but the candidate can learn the required techniques at our iPSC Core.
- Strong skills in beta cell isolation/culture is a plus.
- Experience with flow cytometry is a plus.
- Experience with in vivo animal models, including advanced transgenic models, is a plus.

**Compensation:**

NIH salary scale plus benefits.

**Equal Employment Opportunity:**

The IBRI provides equal employment opportunities to all employees and applicants and does not discriminate on the basis of age, race, color, religion, gender, sexual orientation, gender identity, gender expression, national origin, protected veteran status, disability or any other legally protected status.

**Apply:**

Please visit us at <https://www.indianabiosciences.org/careers/> to learn more and/or apply for this opportunity. Interested individuals are encouraged to provide a brief letter stating their accomplishments and interest in the lab's research, curriculum vitae and a list of three references with their application. You also may contact Dr. Eizirik at [deizirik@ulb.ac.be](mailto:deizirik@ulb.ac.be) or [deizirik@indianabiosciences.org](mailto:deizirik@indianabiosciences.org).